



COMPUTER AUTOMATION, INC.
the NAKED MINI company

NAKED MINI[®]/ALPHA

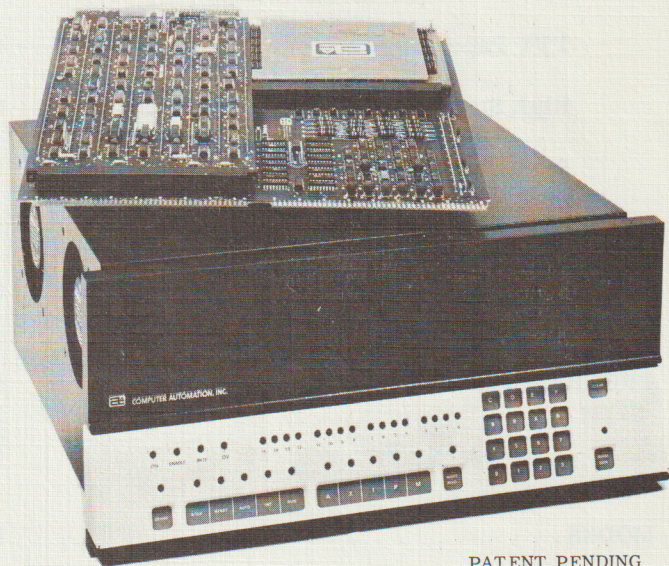
AUTOLOAD LSI OPTION

Computer Automation's Autoload Option (AL) permits the automatic loading of a binary program into the NAKED MINI/ALPHA LSI memory. Sequencing logic controls the execution of a binary loader program stored in a 256-word read-only-memory (ROM). AL inputs from teletype paper tape readers, high speed paper tape readers, 9-track magnetic tape transports, cassette tape, or disk drive systems associated with a NAKED MINI/ALPHA LSI Computer. Loading is initiated by pressing the control console AUTO switch, or momentary grounding of a pin on a rear edge connector of the option board that piggybacks on the NAKED MINI/ALPHA LSI Computer processor board.

Data is stored in NAKED MINI/ALPHA LSI memory starting at a location supplied either by the input source or by manually setting the starting address in the computer's index register. All data is examined for checksum and tape format errors. An error will stop the load and requires a manual restart of the Autoload program. Upon completion of a successful load and if the loaded program includes a valid program execution starting address, computer control may be automatically transferred to the binary program just loaded. The AL option program provides two modes of operation dependent upon the device being utilized. Teletype and high speed paper tape readers use a binary format program. Magnetic tape, cassette tape, and disk systems use a single record "bootstrap" format.

ADVANTAGES

- Control console or remote start capability.
- Complete binary loader (not just a bootstrap), loads binary and most relocatable binary object tapes, checks for load errors, and has automatic load-and-go mode.
- Processor piggyback option module requires no additional I/O card slot in computer.
- Ideally suited for production line use by unfamiliar operators or any application where binary programs must be quickly loaded.
- Multidevice loader. Device selected by console sense register.
- Strap option allows automatic loading after power failure for systems with volatile memories.



PATENT PENDING

HOW TO ORDER

Basic Variables (BV) Option and Power Fail Restart (PFR) are prerequisites and must be ordered with Autoload (AL) Option. Specify product number 12505-01 for BV Option, product number 12500-00 for PFR Option and product number 12505-08 for AL Option. Combinations of other processor options (such as Real Time Clock and TTY/CRT Interface) are available under one product number. All option combinations must be ordered together since they cannot be retrofitted at a later date. Contact sales representative for ordering information on combination of options.

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SPECIFICATIONS

PROGRAM STORAGE.	Read-only-memory (256 words)
MEMORY USED.	Locations : 30 to : 3B of main memory used as scratchpad
RANGE OF PROGRAM LOAD.	Scratchpad locations : 30 to : 3B are required during loading from punch paper tape, but are available after loading is completed.
PROGRAM INITIATION.	Depressing control console AUTO switch or grounding pin on option board

DEVICE SELECTION

TTY Paper Tape Reader.	Set : 0 in Sense Register
High Speed Paper Tape Reader.	Set : 1 in Sense Register
9-track Magnetic Tape System.	Set : 2 in Sense Register
Cassette Tape System.	Set : 3 in Sense Register
Moving Head Disk System.	Set : 4 in Sense Register
PROGRAM TYPES.	Relocatable or Absolute Binary tapes produced by Binary Dump Program and certain tapes produced by the Beta Assembler.
MODES.	Load-and-Go or Load-and-Halt
ERROR DETECTION.	Checksum and format errors. An error stops Auto-load and requires a manual restart.
POWER REQUIREMENTS.	+5 Vdc @ 0.5 A (furnished by processor power supply).